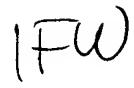
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant:

Leonard Forbes et al.

STRAINED SEMICONDUCTOR BY FULL WAFER BONDING

Docket No.:

1303.109US1

Serial No.: 10/623,788

Filed:

July 21, 2003

Due Date: N/A

Examiner:

Unknown

Group Art Unit: 2811

MS Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

 \underline{X} A return postcard.

X A Communication Concerning Related Applications (2 pgs.).

X A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 11 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

Atty: Marvin L. Beekman

Reg. No. 38,377

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 4 day of May, 2005.

Name

Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

S/N 10/623,788 PATENT

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Leonard Forbes et al.

Examiner: Unknown

Serial No.: 10/62

10/623,788

Group Art Unit: 2811

Filed:

July 21, 2003

Docket: 1303.109US1

Title:

STRAINED SEMICONDUCTOR BY FULL WAFER BONDING

COMMUNICATION CONCERNING RELATED APPLICATION(S)

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related application(s) in the above-identified patent application:

Serial/Patent No. 10/443355	Filing Date May 21, 2003	Attorney Docket 1303.098US1	Title SILICON OXYCARBIDE SUBSTRATES FOR BONDED SILICON ON INSULATOR
10/931554	August 31, 2004	1303.093US2	LOCALIZED STRAINED SEMICONDUCTOR ON INSULATOR
10/931749	August 31, 2004	1303.095US2	STRAINED SEMICONDUCTOR BY WAFER BONDING WITH MISORIENTATION
10/931344	August 31, 2004	1303.108US2	GETTERING USING VOIDS FORMED BY SURFACE TRANSFORMATION
10/931553	August 31, 2004	1303.099US2	ULTRA-THIN SEMICONDUCTORS BONDED ON GLASS SUBSTRATES
10/931580	August 31, 2004	1303.100US2	MICROMECHANICAL STRAINED SEMICONDUCTOR BY WAFER BONDING
10/979994	November 3, 2004	1303.102US2	STRAINED Si/SiGe/SOI ISLANDS AND PROCESSES OF MAKING SAME
11/005712	December 7, 2004	1303.034US2	THREE-DIMENSIONAL PHOTONIC CRYSTAL WAVEGUIDE STRUCTURE AND METHOD

COMMUNICATION CONCERNING RELATED APPLICATIONS

Serial Number: 10/623,788 Filing Date: July 21, 2003

Title: STRAINED SEMICONDUCTOR BY FULL WAFER BONDING

Page 2 Dkt: 1303.109US1

Continuations and divisionals may be later filed on the cases listed above, or cited to the Examiner in any previous Communication Concerning Related Applications. Applicant requests that the Examiner review all continuations and divisionals of the above-listed or previously-cited patent applications before allowing the claims of the present patent application.

Respectfully submitted,

LEONARD FORBES ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. Box 2938 Minneapolis, MN 55402 (612) 373-6960

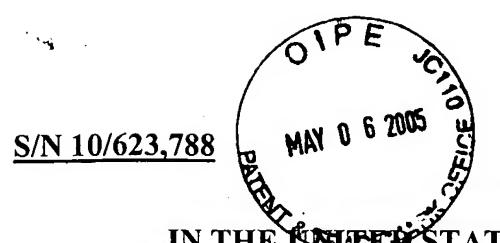
Date 5-4-05 Reg. No. 38,377

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IN THE CREET STATES PATENT AND TRADEMARK OFFICE

Applicant: Leonard Forbes et al.

Examiner:

Unknown

Serial No.: 10/623,788

Group Art Unit:

2811

Filed:

July 21, 2003

Docket:

1303.109US1

Title:

STRAINED SEMICONDUCTOR BY FULL WAFER BONDING

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 et. seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :10/623,788

Filing Date: July 21, 2003
Title: STRAINED SEMICONDUCTOR BY FULL WAFER BONDING

Page 2 Dkt: 1303.109US1

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

LEONARD FORBES ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6960

Date 5-4-05

Ву_

Marvin L. Beekman

Reg. No. 38,377

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Name

Signatur

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Substitute for form 1449A/PTO
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use as many sheets as necessary)

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Sheet 1 of 2

Complete if Known		
Application Number	10/623,788	
Filing Date	July 21, 2003	
First Named Inventor	Forbes, Leonard	
Group Art Unit	2811	
Examiner Name	Unknown	

Attorney Docket No: 1303.109US1

		US PATE	NT DOCUMENTS	-
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2004/0171196-A1	09/02/2004	Walitzki, H J.	08/07/2003
	US-2004/0173798	09/09/2004	Forbes, Leonard	03/05/2003
	US-2004/0214366-A1	10/28/2004	Segal, B M., et al.	05/20/2004
	US-2004/0217352-A1	11/04/2004	Forbes, L.	04/29/2003
	US-2004/0217391	11/04/2004	Forbes, Leonard	04/29/2003
	US-2004/0224480-A1	11/11/2004	Forbes, L.	05/07/2003
	US-2004/0232487-A1	11/25/2004	Forbes, L.	05/21/2003
	US-2004/0232488-A1	11/25/2004	Forbes, L.	05/21/2003
	US-2005/0023529-A1	02/03/2005	Forbes, L.	08/31/2005
	US-2005/0023612-A1	02/03/2005	Forbes, L.	08/31/2004
	US-2005/0023616-A1	02/03/2005	Forbes, L.	08/31/2004
	US-2005/0029619-A1	02/10/2005	Forbes, L.	08/05/2003
	US-2005/0032296-A1	02/10/2005	Forbes, L.	08/31/2004
	US-5,234,535	08/10/1993	Beyer, Klaus D., et al.	12/10/1992
	US-5,441,591	08/15/1995	Imthurn, George P., et al.	06/07/1993
	US-5,877,070	03/02/1999	Goesele, U. M., et al.	05/31/1997
_	US-6,096,433	08/01/2000	Kikuchi, H., et al.	02/20/1998
	US-6,103,598	08/15/2000	Yamagata, K., et al.	07/11/1996
	US-6,136,666	10/24/2000	So, S. M.	12/30/1998
	US-6,143,628	11/07/2000	Sato, N., et al.	03/25/1998
	US-6,328,796	12/11/2001	Kub, F. J., et al.	02/01/1999
	US-6,455,397	09/24/2002	Belford, Rona E.	11/09/2000
	US-6,486,008	11/26/2002	Lee, T.	08/01/2000
	US-6,497,763	12/24/2002	Kub, F. J., et al.	01/19/2001
	US-6,514,836	02/04/2003	Belford, Rona E.	06/04/2001
	US-6,515,335	02/04/2003	Christiansen, S. H., et al.	01/04/2002
	US-6,649,492	11/18/2003	Chu, Jack O., et al.	02/11/2002
	US-6,689,671	02/10/2004	Yu, B, et al.	05/22/2002
	US-6,703,293	03/09/2004	Tweet, D. J., et al.	07/11/2002
	US-6,703,648	03/09/2004	Xiang, Q., et al.	10/29/2002
	US-6,740,913	05/25/2004	Doyle, B. S., et al.	11/09/2001

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
	JP-54-152464A	11/30/1979	Kotani, T.	
	JP-54-155770A	12/08/1979	Kobayashi, S.	

EXAMINER

PTO/SB/08A(10-01)
Approved for use through 10/31/2002, OMB 651-0031
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Substitute for form 1449A/PTO	Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/623,788	
(Use as many sheets as necessary)	Filing Date	July 21, 2003	
	First Named Inventor	Forbes, Leonard	
	Group Art Unit	2811	
	Examiner Name	Unknown	
Sheet 2 of 2	Attorney Docket No: 1303.109US1		

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		AUBERTON-HERVE, A. J., "SOI: Materials to Systems", Digest of the	
		International Electron Device Meeting, San Francisco, (December 1996), 3-10	
		BALL, PHILIP, "Why microchips weigh over a kilogram: A small mountain of	
		materials goes into every microchip", Nature Science Update,	
		http://www.nature.com/nsu/021028/021028-12.html, (November 2, 2002), 1-2	
		CARTAGENA, E, "Bonded Etchback Silicon on Sapphire Bipolar Junction	
		Transistors", Extended Abstracts - Electrochemical Society (1), Program and	
		Abstracts: 183rd Meeting of the Electrochemical Society, Pennington, NJ,	
		(1993), 1199-1200	
		DHARMATILLEKE, S N., et al., "Anodic Bonding of Glass to Glass and Silicon to	
		Glass or Silicon to Silicon Through a Very Thick Thermally Grown SiO2 Layer",	
		Proceedings of IS 3M International Symposium on Smart Structures and	
<u> </u>		Microsystems, http://dolphin.eng.uc.edu/projects/bonding/paper.pdf, (2000), 32	
		IMTHURN, GEORGE P., et al., "Bonded Silicon-on-Sapphire Wafers and	
		Devices", Journal of Applied Physics, 72(6), (September 1992),2 526-7	
		LU, X., et al., "SiGe and SiGeC Surface Alloy Formation Using High-Dose	
		Implantation and Solid Phase Epitaxy", Proceedings of the 11th International	
		Conference on Ion Implantation Technology, Austin, TX, (1997), 686-689	
		REINHOLD PUBLISHING CO., "Comparisons of Materials: Coefficient of	
		Thermal Expansion", Reprinted with permission from "Materials Selector",	
		Reinhold Publishing Co., Penton/IPC,	
V-1444		http://www.handyharmancanada.com/TheBrazingBook/comparis.htm	
		RENLUND, G., "Silicon oxycarbide glasses: Part II. Structure and properties",	
		Journal of Materials Research, 6(12), (December 1991), 2723-2734	
		SUNI, T, et al., "Effects of Plasma Activation on Hydrophilic Bonding of Si and	
		SiO2", Journal of the Electrochemical Society, 149, (2002), G348-51	

EXAMINER